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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/759,867	01/15/2004	Elias Gedamu	200209677-1	8420

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HEWLETT PACKARD COMPANY  
P O BOX 272400, 3404 E. HARMONY ROAD  
INTELLECTUAL PROPERTY ADMINISTRATION  
FORT COLLINS, CO 80527-2400

EXAMINER

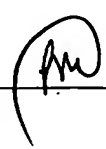
MEMULA, SURESH

ART UNIT	PAPER NUMBER
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2825

DATE MAILED: 03/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 10/759,867	Applicant(s) GEDAMU, ELIAS 	
	Examiner Suresh Memula	Art Unit 2825	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 15 January 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>1/15/2004</u> . | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding Claims 1, 6, 11, and 15 none of the bodies of independent Claims 1, 6, 11, and 15 support "testing a processor design" as recited in the preambles of Claims 1, 6, 11 and 15.

Claims 2-5, 7-10, and 12-14 are rejected because they depend on Claims 1, 6, and 11 respectively.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-4, 6-8, 11, and 14-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Ando (US Pub. No. 2004/0111231).

As to Claim 1,

searching a file that contains test results for a lot of wafers at two or more voltage levels (Abstract, Paragraphs 0002, 0020, 0025, 0026, and FIG. 2); and

determining an optimal operational voltage based on which of the two or more voltage levels had the least test failures (Abstract, Paragraphs 0002, 0008, 0026-0027, and FIG. 2).

As to Claim 2, searching the file comprises parsing the file (Paragraphs 0002, 0020, and FIG. 2).

As to Claim 3, searching the file comprises opening the file and parsing the file (Paragraph 0020, 0023, and FIG. 2).

As to Claim 4, determining an optimal operational voltage comprises: determining the number of test failures at a first voltage level; determining the number of test failures at a second voltage level; and determining which of the first voltage level and the second voltage level had the least test failures (Paragraphs 0026-0027).

As to Claim 6,

a parser module for searching a file that contains test results for a lot of wafers at two or more voltage levels (Abstract, Paragraphs 0020, 0025, 0026, and FIG. 2);

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a test failure calculation module for determining how many test failures occurred at the two or more voltage levels (Abstract, Paragraphs 0026-0027); and

an optimal operational voltage module for determining which of the two or more voltage levels had the least test failures (Abstract, Paragraphs 0002, 0008, 0026-0027, and FIG. 2).

As to Claim 7, parser module is configured to open the file (Paragraph 0027, and FIG. 2).

As to Claim 8, parser module, the test failure calculation module, and the optimal operational voltage module comprise software that is executed by a processor (FIG. 2).

As to Claim 11,

logic configured to search a file that contains test results for a lot of wafers at two or more voltage levels (Paragraph 0002, and FIG. 2); and

logic configured to determine an optimal operational voltage based on which of the two or more voltage levels had the least test failures (Paragraphs 0008, 0026-0027).

As to Claim 14, logic configured to determine an optimal operational voltage comprises logic configured to: determine the number of test failures at a first voltage level; determine the number of test failures at a second voltage level; and determine which of the first voltage level and the second voltage level had the least test failures (Paragraphs 0026-0027).

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As to Claim 15,

means for searching a file that contains test results for a lot of wafers at two or more voltage levels (Abstract, Paragraphs 0002, 0020, 0025, 0026 and FIG. 2); and

means for determining an optimal operational voltage based on which of the two or more voltage levels had the least test failures (Abstract, Paragraphs 0002, 0008, 0026-0027, and FIG. 2).

2. Claims 1-4, 6-8, 11, and 14-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Stewart (US Pub. No. 2004/0128567).

As to Claim 1,

searching a file that contains test results for a lot of wafers at two or more voltage levels (Paragraphs 0006-0007, 0060, 0083, and FIG. 5A-C, 6-7, and 13); and

determining an optimal operational voltage based on which of the two or more voltage levels had the least test failures (Paragraph 0001, and FIG. 6-8 and 10).

As to Claim 2, searching the file comprises parsing the file (FIG. 4, 5A-C, and 13).

As to Claim 3, searching the file comprises opening the file and parsing the file (FIG. 3, 5a, and 13).

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As to Claim 4, determining an optimal operational voltage comprises: determining the number of test failures at a first voltage level; determining the number of test failures at a second voltage level; and determining which of the first voltage level and the second voltage level had the least test failures (Paragraph 0060).

As to Claim 6,

a parser module for searching a file that contains test results for a lot of wafers at two or more voltage levels (Paragraphs 0006-0007, 0060, 0083, and FIG. 5A-C, 6-7, and 13);

a test failure calculation module for determining how many test failures occurred at the two or more voltage levels (Paragraphs 0038, 0060, and FIG. 9); and

an optimal operational voltage module for determining which of the two or more voltage levels had the least test failures (Paragraph 0001, and FIG. 6-7 and 10).

As to Claim 7, parser module is configured to open the file (FIG. 3, 5a, and 13).

As to Claim 8, parser module, the test failure calculation module, and the optimal operational voltage module comprise software that is executed by a processor (Paragraph 0008, and FIG. 4 and 5A-C).

As to Claim 11,

logic configured to search a file that contains test results for a lot of wafers at two or more voltage levels (Paragraphs 0006-0007, 0060, 0083 and FIG. 5A-C, and 6-7); and

logic configured to determine an optimal operational voltage based on which of the two or more voltage levels had the least test failures (Paragraph 0001, and FIG. 6-7 and 10).

As to Claim 14, logic configured to determine an optimal operational voltage comprises logic configured to: determine the number of test failures at a first voltage level; determine the number of test failures at a second voltage level; and determine which of the first voltage level and the second voltage level had the least test failures (Paragraphs 0038 and 0060).

As to Claim 15,

means for searching a file that contains test results for a lot of wafers at two or more voltage levels (Paragraphs 0006-0007, 0038, 0060, 0083 and FIG. 5A-C and 6-7); and

means for determining an optimal operational voltage based on which of the two or more voltage levels had the least test failures (Paragraphs 0001, 0038, and FIG. 6-7 and 10).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 5, 9, and 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ando (US Pub. No. 2004/011231) and/or Stewart (US Pub. No.



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2004/0128567) in view of Huang et al. (US Pub. No. 2003/0056029) and/or Pugh (US Pub. No. 2002/0143785).

Ando and/or Stewart teaches substantially all of the limitations as stated above, except for decompressing the file in Claims 5, 9, and 12.

Huang discloses decompressing a file (Paragraph 0050).

Pugh discloses decompressing a file (Paragraph 0033).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize the decompression of a file in order to:

(a) Make the file readable, since decompressing a file is well known in the art (Huang, Paragraph 0050); and/or

(b) Unzip/decompress a file for human readability is known in the art (Pugh, Paragraph 0033).

As to Claim 13, logic configured to search is further configured to parse the file (Ando, Paragraphs 0002, 0020, and FIG. 2; and/or Stewart, FIG. 4, 5A-C, and 13).

4. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ando (US Pub. No. 2004/0111231) and/or Stewart (US Pub. No. 2004/0128567) in view of Katla et al. (US Pub. No. 2005/0050480) and/or Wookey et al. (US Patent No. 6,182,249).

Ando and/or Stewart teaches substantially all of the limitations as stated above, except for the PERL script in Claim 10.

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Katla discloses the PERL script (Paragraphs 0026 and 0052).

Wookey discloses the PERL script (Column 8, lines 4-7)

It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize the PERL script because one or more of the following:

(a) PERL script is well known in the art for being utilized in order to implement wrapper program (Katla, Paragraph 0026); and

(b) PERL script is well known in the art as Unix support (Katla, Paragraph 0052); and

(c) In order to parse through the output of tests a strong processing programming language, such as PERL is utilized (Wookey, Column 8, lines 4-7).

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**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suresh Memula whose telephone number is (571) 272-8046. The examiner can normally be reached on M-F 8am-4:30pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on (571) 272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SM 3/13/2006

PAUL DINH  
PRIMARY EXAMINER

A handwritten signature in black ink that reads "Paul Dinh". The signature is written in a cursive, flowing style with a long horizontal stroke extending to the right.